Listing of Claims

1-12 (Canceled)

13. (Currently Amended) A data transmission system, comprising:

a personal computer; and

a multi-access system, including a modem, coupled to the computer through a Bluetooth connection;

wherein data packets are transmitted between the personal computer and the multi-accessing system including the modem through the Bluetooth connection, and the multi-accessing system including the modem transmits the data packets via an air interface for accessing the Internet.

14. (Currently Amended) The system of claim 13, further comprising ~~wherein the modem comprises~~:

a radio transmitting system, coupled to the modem of the ~~which includes a~~ multi-access system, that allows a plurality of personal computers to access at least one radio communication terminal.

15. (Canceled)

16. (Currently Amended) The system of claim 13, ~~wherein the modem comprises~~ further comprising:

at least one radio communication terminal coupled to the modem; and

wherein the [[a]] multi-access system is between the radio communication terminal and the personal computer.

17. (Previously Presented) The system of claim 16, wherein the multi-access system sends data packets belonging to a same call from the computer for wireless transmission through a plurality of radio communication terminals.

18. (Previously Presented) The system of claim 17, wherein the multi-access system sends the data packets through the plurality of radio communication terminals based on a same destination IP address and a same data link address, said same data link address corresponding to the computer.

19. (Currently Amended) The system of claim 16, wherein the multi-access system comprises:

a system for receiving data packets from a plurality of personal computers;

a packet-call connection system for interfacing with one or more radio communication terminals; and

a multi-access routing system for routing data packets from the multimedia system to the radio communication terminals according to a slot assignment method.

20. (Previously Presented) The system of claim 19, wherein the slot assignment method is set by the plurality of computers.

21. (Currently Amended) The system of claim 19, wherein the slot assignment method comprises:

performing a one-on-one assignment for mapping each of the personal computers to a respective one of the radio communication terminals; and

a common sharing method for allowing each personal computer to share the plurality of radio communication terminals for transmitting data packets.

22. (Currently Amended) The system of claim 19, wherein the receiving system comprises:

a plurality of physical data link control circuits provided in one-to-one correspondence with the plurality of personal computers, each of said physical data link control circuits controlling a corresponding physical data link;

a TCP/IP control circuit to perform a TCP/IP protocol function on data packets transmitted from the plurality of physical data link control circuits;

a command/response control circuit for performing/responding to a command of the computers transmitted from the TCP/IP control circuit; and

a data control circuit for sorting and buffering data transmitted from the TCP/IP control circuit.

23. (Currently Amended) The system of claim 19, wherein the multi-access routing system:

sets a slot assignment method according to a command of at least one of the personal computers,

assigns a slot to said one of the personal computers according to the set slot assignment method, and

routes data packets associated with a same call between said one of the personal computers and multiple ones the radio communication terminals based on said same destination IP address and said same data link address associated with each of the packets.